

Title (en)
Detecting nucleic acid deletion sequences

Title (de)
Detektion von Nukleinsäure-Deletionssequenzen

Title (fr)
Détecter des séquences d'acides nucléiques délétés

Publication
EP 1266970 A2 20021218 (EN)

Application
EP 02254040 A 20020611

Priority
US 87774801 A 20010611

Abstract (en)
In a method for determining the presence of deletions in nucleic acids, a sample suspected of containing nucleic acid of interest is contacted with reagents including those appropriate for short PCR and primers flanking the deletion sequence. The nucleic acid that has been contacted with this material is amplified and identified. Wild type nucleic acids having long sequences between the sequences that hybridize to the primers are not amplified. Mutant nucleic acids are amplified. Thus, the detection of amplicons signals the presence of nucleic acid sequences having deletions. Contacting the sample with cleavage reagent specific for the deletion sequence cleaves wt DNA but not mutant nucleic acids that do not contain the deletion sequence.

IPC 1-7
C12Q 1/68

IPC 8 full level
C12N 15/09 (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP US)
C12Q 1/6853 (2013.01 - EP US); **C12Q 1/6858** (2013.01 - EP US)

C-Set (source: EP US)
1. **C12Q 1/6853** + **C12Q 2521/301** + **C12Q 2535/125**
2. **C12Q 1/6858** + **C12Q 2521/301** + **C12Q 2535/125**

Cited by
US7354715B2; WO2004106555A3; WO2005056573A1; US10308987B2; US11111546B2; US8008008B2; US9745632B2; US10907213B2

Designated contracting state (EPC)
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EP 1266970 A2 20021218; **EP 1266970 A3 20040102**; **EP 1266970 B1 20080924**; AT E409237 T1 20081015; DE 60229025 D1 20081106; JP 2003070497 A 20030311; US 2003162174 A1 20030828; US 2006063191 A1 20060323

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